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# WGU C949 Data Structures and Algorithms I Exam (New 2023/ 2024 Update) Questions and Verified Answers| 100% Correct| Grade A

**Q:UESTION**
_A tree that maintains the simple property that a node's key is greater than or equal to the node's childrens' keys.

**Answer:**
max heap

**Q:UESTION**
_A tree that maintains the simple property that a node's key is less than or equal to the node's childrens' keys.

**Answer:**
min heap

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**Q:UESTION**
_A data structure for representing connections among items, and consists of vertices connected by edges.

**Answer:**
graph

**Q:UESTION**
_This represents an item in a graph.

**Answer:**
vertex

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**Q:UESTION**
_This represents a connection between two vertices in a graph.

**Answer:**
edge

**Q:UESTION**
_A Last-in, First-out (LIFO) data container

**Answer:**
Stack

**Q:UESTION**
_When something is retrieved from a stack, does it come from t
bottom of the stack?

**Answer:**
Top

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**Q:UESTION**
_A First-in, First-out (FIFO) container

**Answer:**
Queue

**Q:UESTION**
_When something is removed from a queue, does it come fro the tail?

**Answer:**
Head

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**Q:UESTION**

When something is added to a queue, does it get added to the head or the tail?

**Answer:**

Tail

**Q:UESTION**

A queue-like container which is both First-in, First-out and Last-in, Last-out

**Answer:**

Doubly Ended Queue (deque)

**Q:UESTION**

Which type of function allows for items to be added or removed from the beginning or end?

**Answer:**

Doubly Ended Queue (deque)

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**Q:UESTION**

A data structure where nodes have parent-child (1:N) relationship

**Answer:**

Tree

**Q:UESTION**

Each node in a Tree has at least parent, but the number of children depends on the type of tree

**Answer:**

one

**Q:UESTION**

Every node in a tree has how many parents?

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